

Amendments to the Specification:

Page 12, amend the paragraph beginning on line 9 to read as follows:

In the preferred embodiment of the invention, the M-Router 52 has a full TCP/IP stack functionality. It performs standard IP routing forwarding packets to the RAN interface and may embed wireless specific control functions such as radio flow control and terminal management functions. The incoming IP packets may be classified in the M-Router 52 as well be explained further below, in accordance with the invention. The M-Router 52 relays the incoming IP packet flows via the corresponding access point to the mobile terminal using the suitable QoS characteristics. The wireless extension controls radio flows, terminal mobility and location management. The M-Router 52 may control the access points using a specific control protocol. The access point 5-51 multiplexes the IP flows into radio flows. The access point can be a simple LAN bridge or alternatively implement a complete IP stack functionality. In the latter case the access point is capable of classifying the IP packet QoS class by reading the IP packet header and can therefore perform the mapping IP QoS class into the corresponding radio service queue with the corresponding QoS characteristics, described later in this invention. The access point 5-51 segments and re-assembles IP packets into segments that fit into radio link packets. The segmentation and re-assembly (SAR) blocks handle the segmentation between the mobile terminal 4 and the M Router.

Page 26, amend the paragraph beginning on line 8 to read as follows:

Access Point Control Protocol (APCP): APCP protocol provides a mechanism for transmitting control messages between the access points and the M-Router. ACPC-APCP can be located on top of TCP/IP stack which guarantees a reliable

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transmission of control messages. WFMP deploys ACPC for RRM queries and for sending flow control information to the radio sub-system.

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